

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A user input device comprising:
a switch matrix having a plurality of ~~plurality of~~ rows and columns;
scan logic operable to detect signals corresponding to operation of said rows and columns of
said switch matrix and to generate an output signal in response thereto;
a test control bus operable to provide test signals to said scan logic;
a storage module for storing an executable test sequence program for generating a plurality
of signals corresponding to a known operating condition of said switch matrix;
a general purpose input-output (GPIO) module operable to provide said a plurality of test
signals to said scan logic via said test control bus; and
a processor operable to initiate execution of said executable test sequence program and
further operable to compare said output signal of said scan logic to a known
reference signal to obtain an indication of the operating condition of said scan logic.
2. (Currently Amended) The user input device of claim 1, wherein the test signals
provided by the GPIO module ~~comprise~~ are generated using a minidriver.
3. (Original) The user input device of claim 1, wherein the scan logic operates in
first and second states, wherein said scan logic receives signals from said switch matrix in said first
state and wherein said scan logic receives test signals from the test control bus in said second state.
4. (Original) The user input device of claim 3, wherein the GPIO module is
operable to switch said scan logic from said first state to said second state in response to control
signals generated by said processor.
- 5-8. (Canceled)
9. (Currently Amended) A system that services communications between a wirelessly
enabled host and at least one user input device, comprising:
a wireless interface unit that wirelessly interfaces with the wirelessly enabled host;
a processing unit operably coupled to the wireless interface unit;

an input/output unit operably coupled to the wireless interface unit and to the processing unit, wherein the input/output unit also operably couples to the user input device; and

a user input device, comprising:

a switch matrix having a plurality of ~~plurality of~~ rows and columns;

scan logic operable to detect signals corresponding to operation of said rows and columns of said switch matrix and to generate an output signal in response thereto;

a test control bus operable to provide test signals to said scan logic;

a storage module for storing an executable test sequence program for generating a plurality of signals corresponding to a known operating condition of said switch matrix;

a general purpose input-output (GPIO) module operable to provide said a plurality of test signals to said scan logic via said test control bus; and

a processor operable to initiate execution of said executable test sequence program and further operable to compare said output signal of said scan logic to a known reference signal to obtain an indication of the operating condition of said scan logic.

10. (Currently Amended) The user input device of claim 9, wherein the test signals provided by the GPIO module ~~comprise~~ are generated using a minidriver.

11. (Original) The user input device of claim 9, wherein the scan logic operates in first and second states, wherein said scan logic receives signals from said switch matrix in said first state and wherein said scan logic receives test signals from the test control bus in said second state.

12-22. (Canceled)